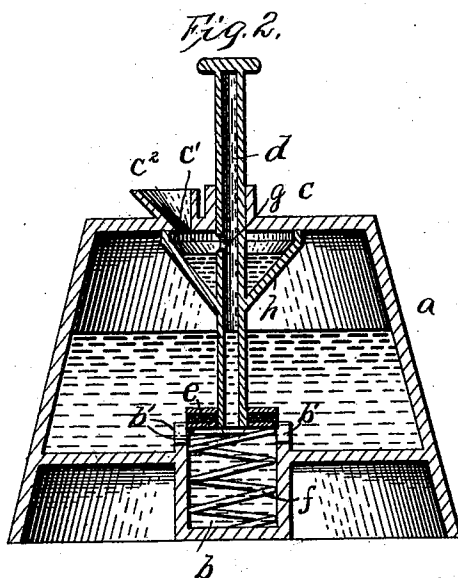
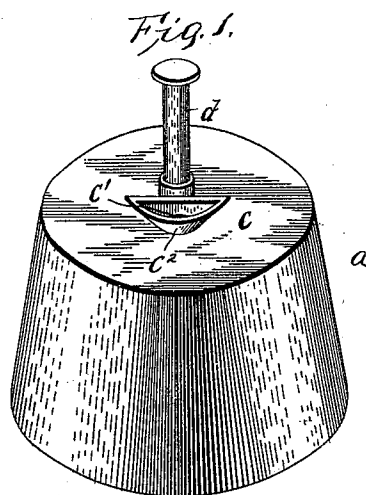


(No Model.)

S. G. BALDWIN.
INK WELL.

No. 544,558.

Patented Aug. 13, 1895.



Witnesses:
E. Callan Ruffy
Hubert Beck

Inventor:
S. G. Baldwin
per *[Signature]*
Attorney

UNITED STATES PATENT OFFICE.

STEPHEN G. BALDWIN, OF MARION, INDIANA.

INK-WELL.

SPECIFICATION forming part of Letters Patent No. 544,558, dated August 13, 1895.

Application filed May 2, 1895. Serial No. 547,863. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN G. BALDWIN, of Marion, in the county of Grant and State of Indiana, have invented certain new and useful Improvements in Ink-Wells; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to certain improvements in ink-wells.

The object of the invention is to provide an improved closed ink-well having a small opening for the insertion of a pen, and a reciprocatory pump carrying an ink-cup and formed to raise the ink from the reservoir to the cup and raise the cup to said pen-opening.

The invention consists in certain novel features of construction and in combinations and arrangements of parts, more fully and particularly described and pointed out hereinafter.

Referring to the accompanying drawings, Figure 1 is a perspective of the ink-well. Fig. 2 is a longitudinal central vertical section thereof.

In the drawings, *a* is the ink-reservoir, having at its bottom the central well *b*, provided with flanges extended upwardly into the reservoir, with openings *b'* therein to permit the ink to flow from the bottom of the reservoir down in the well.

c is the top of the reservoir, having a central opening, and to one side of its center a small pen-opening *c'*, provided with the flaring pen guide or mouth *c''*.

d is a piston-rod fitting snugly in said central opening of the top and extending above the same, and provided with a suitable knob or handle at its upper end and extending down through the reservoir, and at its lower end provided with piston *e* in said well. This piston and rod are held in their normal position at the limit of upward movement by the spring (here shown in the form of a coiled spring) *f*, arranged in said well and bearing up against the piston, so that when the piston is depressed the spring will be compressed. The normal position of the piston is at the up-

per end of the well within said flanges and above the ink-opening in the same, so that the ink has free access to the well from the reservoir.

The piston-rod is hollow and opens through the lower end or face of the piston into the well, and is provided with the lateral outlet-opening *g* above the ink-cup *h*, carried by and surrounding the piston-rod. This ink-cup is preferably conical in shape and of such diameter at its upper end as to extend beyond the pen-opening in the top, so that when the parts are in operative position the spring holds the ink-cup up against the top of the ink-reservoir, so that the cup is immediately beneath the pen-opening and the pen forced through the opening will enter the cup. The outlet-opening from the piston-rod into the cup is so arranged that the ink cannot flow back through said opening and empty the cup; also if the cup overflows the ink drops back into the reservoir; also it will be observed that the normal position of the parts is with the upper edge of the ink-cup tightly pressed against the under side of the reservoir top, so as to close the interior of the reservoir from the pen-opening in the top, thereby keeping the ink from evaporating and becoming contaminated by dust or other atmospheric influences. When the cup becomes exhausted of ink, or otherwise ink is needed therein, it is simply necessary to force down the piston-rod to the piston, and the well, acting as a cylinder and piston, will force the ink up through the hollow piston-rod and into the cup, which will immediately return to its normal position.

This construction of inkstand is exceedingly durable, simple, and efficient in action and economical in manufacture.

It is evident that various changes might be made in the forms, constructions, and arrangements of the parts described without departing from the spirit and scope of my invention. Hence I do not wish to limit myself to the exact construction herein set forth, but consider myself entitled to all such changes as fall within the spirit and scope of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. An ink reservoir having a bottom well and the top pen opening, a spring actuated piston rod provided with the piston in said well, and an ink cup beneath the pen opening, said piston rod being hollow and provided with the outlet opening above the ink cup, substantially as described. 5
 2. An ink reservoir having a spring actuated ink pump comprising a piston having a hollow piston rod extending up through the top of the reservoir, an ink cup on and surrounding the piston rod and yieldingly held up against the top of the reservoir, said piston rod having a side opening above the ink cup and said reservoir provided with the pen opening above the cup, substantially as described. 15
 3. An ink reservoir provided with the bottom well and spring held piston rod passing out through the top of the reservoir and provided with the piston in the well, said piston rod being hollow and opening through the bottom of the piston and provided with a lateral discharge opening and the ink cup beneath the discharge opening and supplied therefrom. 25
 4. An ink reservoir having the bottom well with upwardly extended flanges in the reservoir having ink openings and a coiled spring in the well a piston on the coil spring normally held above the said opening and provided with the hollow piston rod extending to the exterior of the reservoir and carrying the cup supply through its interior and the pen opening above the cup, substantially as described. 30
- In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.
- STEPHEN G. BALDWIN.
- Witnesses:
A. M. BALDWIN,
W. S. HALL. 35